

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3417	(239/533.3-533.12).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2011/03/31 08:20
L3	57	l1 and ridge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 08:20
L4	463	l1 and protru\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 08:20
L5	4751	(123/299,446,447,468,467).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2011/03/31 08:23
L6	590	l5 and (ridge or Protru\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 08:23
L8	30	(l1 or l5) and (seating line)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 08:31
L9	1	nozzle and body and bore and valve and seating and surface and cone angle and ((valve member) or needle) and (upstream seat region) and (upstream cone) and (annular ridge) and (upstream ridge region) and (downstream seat region) and (downstream ridge region) and (seating line) and annular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 09:17
L10	1	(nozzle and body and bore and valve and seating and surface and cone angle and ((valve member) or needle) and (upstream seat region) and (upstream cone) and (annular ridge) and (upstream ridge region) and (downstream seat region) and (downstream ridge region) and (seating line) and annular).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/03/31 09:17

S1	1238	239/533.12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 08:13
S2	485	239/533.11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 08:13
S3	4	("6427932"   "6565017").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 08:57
S4	25	("1952816"   "4153205"   "4273291"   "4417694"   "4470548"   "4934605"   "4974565"   "5163621"   "5580000"   "5743470"   "5890660"   "6047905"   "6062498"   "6186419").PN. OR ("6427932"   "6565017").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/17 08:58
S6	18	"10000501"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:00
S7	7	"10122503"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:01
S8	3	"0201065"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:01
S9	4	"0236961"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:01
S10	1467	S1 or S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:49
S11	10	S10 and (load near4 bearing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/02/17 09:49
S12	1284	239/533.12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24

S13	501	239/533.11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S14	4	("6427932"   "6565017").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S15	26	("1952816"   "4153205"   "4273291"   "4417694"   "4470548"   "4934605"   "4974565"   "5163621"   "5580000"   "5743470"   "5890660"   "6047905"   "6062498"   "6186419").PN. OR ("6427932"   "6565017").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/05 15:24
S16	21	"10000501"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S17	7	"10122503"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S18	4	"0201065"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S19	4	"0236961"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S20	1522	S12 or S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S21	10	S20 and (load near4 bearing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/01/05 15:24
S22	20	("1952816"   "4153205"   "4470548"   "4974565"   "5163621"   "5580000"   "5890660"   "6047905").PN. OR ("6565017").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/08 11:22

S23	74	(["1952816"   "20020179743"   "20030057299"   "20050178860"   "20060011749"   "2407915"   "2927737"   "3836080"   "3980237"   "4153205"   "4470548"   "4528951"   "5033679"   "5110053"   "5199398"   "5588412"   "5725157"   "5743470"   "5890660"   "6257506"   "6427932"   "6546914"   "6565017"   "6666388"   "6669117"   "6776358"   "6811105"   "6892965"   "6923388"   "7011256").PN. OR ("1952816"   "4153205"   "4470548"   "5890660"   "6892965"   "7128280"   "7347389").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/08 11:28
S24	15	("20020179743"   "20050224605"   "20090134246"   "20090283612"   "5899389"   "6220528"   "6565017"   "6758407"   "7243862"   "7347389"   "7360722"   "7364099"   "7404526"   "7568634"   "7578450").PN. OR ("7789062").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/11/08 11:32
S25	12	(US-6565017-\$ or US-6427932-\$ or US-7404526-\$ or US-6892965-\$ or US-5890660-\$ or US-4470548-\$ or US-7347389-\$ or US-7128280-\$ or US-4153205-\$ or US-7100847-\$).did. or (US-1952816-\$).did. or (DE-10000501-\$).did.	USPAT; USOCR; DERWENT	ADJ	ON	2010/11/08 14:49
S26	5	S25 and equal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/11/08 14:49
S27	26	("2927737"   "3836080"   "3980237").PN. OR ("4153205").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/03/29 10:41
S28	28	("1952816"   "3980237"   "4153205"   "4470548"   "4528951"   "5033679"   "5110053"   "5725157").PN. OR ("5890660").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/03/29 10:42

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	(239/533.3-533.12).OCLS.	UPAD	OR	OFF	2011/03/31 08:20
L7	3	(123/299,446,447,468,467).OCLS.	UPAD	OR	OFF	2011/03/31 08:23
L11	0	(nozzle and body and bore and valve and seating and surface and cone angle and (valve member) or needle) and (upstream seat region) and (upstream cone) and (annular ridge) and (upstream ridge region) and (downstream seat region) and (downstream ridge region) and (seating line) and annular).clm.	USPAT; UPAD	ADJ	ON	2011/03/31 09:18

L12	0	(nozzle and body and bore and valve and seating and surface and cone angle and ((valve member) or needle) and (upstream seat region) and (upstream cone) and (annular ridge) and (upstream ridge region) and (downstream seat region) and (downstream ridge region) and (seating line) and annular)	USPAT; UPAD	ADJ	ON	2011/03/31 09:18
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